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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/711,544	09/24/2004	Wen-Kuo Chu	13529-US-PA	5543
31561 7590 04/18/2007 JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100			EXAMINER	
			WON, BUMSUK	
ROOSEVELT ROAD, SECTION 2 TAIPEI, 100		ART UNIT	PAPER NUMBER	
TAIWAN			2879	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIĹ DATE	DELIVERY MODE	
3 MON	NTHS	04/18/2007	PAP	FR

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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•		Application No.	Applicant(s)				
Office Action Summary		10/711,544	CHU ET AL.				
		Examiner	Art Unit				
		Bumsuk Won	2879				
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	orrespondence address				
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D asions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	•	•					
1)	Responsive to communication(s) filed on 15 M	March 2007					
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	· · · · · · · · · · · · · · · · · · ·	·	secution as to the merits is				
٠,؎	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
	·						
Dispositi	on of Claims						
4) 🖾	4)⊠ Claim(s) <u>1,3-8,21 and 22</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1, 3-8, 21, 22</u> is/are rejected.		·				
7)	Claim(s) is/are objected to.						
8)[	Claim(s) are subject to restriction and/o	or election requirement.					
Applicati	on Papers		•				
9) 🗌	The specification is objected to by the Examine	er.					
10)	The drawing(s) filed on is/are: a) acc	cepted or b) objected to by the I	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	•	)-(d) or (f).				
	1. Certified copies of the priority documen		on Ma				
	<ul><li>2. Certified copies of the priority documen</li><li>3. Copies of the certified copies of the priority</li></ul>						
	application from the International Burea						
* 5	See the attached detailed Office action for a list		ed.				
Attachmen	t(s)	•					
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) 🔲 Notic 3) 🔲 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5)  Notice of Informal F	ate				
	r No(s)/Mail Date	6)					

Art Unit: 2879

#### **DETAILED ACTION**

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/15/2007 has been entered.

## Response to Amendment

The amendment filed on 3/15/2007 has been entered.

# Response to Arguments

Applicant's arguments with respect to claims 1, 3-8, 21 and 22 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Objections

Claims 1, 3-8, 21 and 22 are objected to because of the following informalities: In claim 1, "disconnected to each other" should be "disconnected from each other".

Appropriate correction is required. Claims 3-8, 21 and 22 are objected to due to claim dependency.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3- 5, 7, 8, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe (2004/0090175) in view of Yuki (2005/0059185).

Art Unit: 2879

Regarding claim 1, Urabe discloses an active matrix OELD panel (figs 1-5) comprising: a pixel structure layer (bottom part of the panel) disposed on a substrate (1) wherein the pixel structure layer comprises an active device matrix (fig 5) and an anode pattern layer (A); an organic light emitting layer (10) disposed over the anode pattern layer wherein the organic layer comprises first, second, and third organic layers (RGB); and a cathode layer (12) disposed on the organic layer wherein the cathode layer comprises cathode patterns, first cathode pattern disposed on the first organic light emitting pattern, second cathode pattern disposed on the second organic light emitting pattern, third cathode pattern disposed on the third organic light emitting pattern (fig 4C), and the first, second, and the third cathode patterns are disconnected from each other (figs 3 and 4C).

Urabe does not disclose the first cathode pattern being electrically connected to a first voltage, the second pattern being electrically connected to a second voltage, and the third pattern being electrically connected to a third voltage, and the first, the second, and the third voltage are different from each other.

Yuki discloses an OELD device (figure 7) having first cathode pattern (R, red) being electrically connected to first voltage (701), second cathode pattern (G, green) being electrically connected to second voltage (702), third cathode pattern (B, blue) being electrically connected to third voltage (703), and the first, the second, and the third voltages are different from each other (figure 8), for the purpose of suppressing the luminance variance of each color independently (paragraph 153).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have first cathode pattern being electrically connected to first voltage, second pattern being electrically connected to second voltage, and third pattern being electrically connected to third voltage, and the first, the second, and the third voltage

Art Unit: 2879

are different from each other as disclosed by Yuki in the panel disclosed by Urabe, for the purpose of suppressing the luminance variance of each color independently.

Regarding claim 3, Yuki discloses first, second, and third cathode lines (figure 7, 704, 705, 706) electrically connected to the first, the second, and the third cathode patterns (R, G, B) respectively. The reason for combining is same as claim 1.

**Regarding claim 4,** Urabe discloses a partition rib structure (6) disposed over the active device matrix and the anode pattern layer (fig 4C, active device matrix is below anode A), and the first, the second, and the third organic pattern are isolated from each other (figs 3, 4C).

**Regarding claim 5,** Urabe discloses the partition rib structure (6) isolates the first, the second, and the third cathode pattern (figs 3, 4C).

**Regarding claim 7,** Urabe discloses the first, the second, and the third organic pattern are RGB (fig 3).

**Regarding claim 8,** Urabe discloses the active device matrix comprises TFT array (figs 5 and 6).

Regarding claim 21, Yuki discloses the first cathode pattern (figure 7, R) is electrically connected to the first voltage (701) through the first cathode line (704), the second cathode pattern (figure 7, G) is electrically connected to the second voltage (702) through the first cathode line (705), and the third cathode pattern (figure 7, B) is electrically connected to the third voltage (703) through the first cathode line (706). The reason for combining is same as claim 1.

**Regarding claim 22,** Yuki discloses in the figure 7, the first, second, and third cathode patterns (R, G, B) extend alone a first direction (top to bottom or vice versa), and the first, second, and third cathode lines (704, 705, 706) extend alone a second direction

Art Unit: 2879

different from the first direction (left to right or vice versa). The reason for combining is same as claim 1.

Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Urabe in view of Yuki, in further view of Fery (2004/0075115).

Urabe in view of Yuki discloses all the claimed limitations except for the partition rib structure has width of the top surface being greater than width of the bottom surface.

Fery discloses an OELD (fig 2) having a partition rib structure (105) that isolates cathodes (103) as well as organic layers (102), and has width of the top surface being greater than width of the bottom surface (fig 2), for the purpose of effectively separating the cathodes and organic layers.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have a partition rib structure has width of the top surface being greater than width of the bottom surface disclosed by Fery in the OELD panel disclosed by Urabe in view of Yuki, for the purpose of effectively separating the cathodes and organic layers.

#### **Contact information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bumsuk Won whose telephone number is 571-272-2713. The examiner can normally be reached on Monday through Friday, 8:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2879

Page 6

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bumsúk Won Patent Examiner JOSEPH WILLIAMS
PRIMARY EXAMINER